SONY

4-089-036-**11**(1)

408903611

# *FD Trinitron Colour Television*

***Instruction Manual***

EN

# *KV-32LS65AUS*

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# Introduction

**Thank you for choosing this Sony FD Trinitron Colour Television.**

**Before operating the TV, please read this manual thoroughly and retain it for future reference.**

- Symbols used in the manual:
  - Important information.
  - Information on a feature.
  - **1,2...** Sequence of instructions.
  - Shaded buttons on the remote control show you the buttons you have to press to follow the sequence of the instructions.
  - Informs you of the result of instructions.

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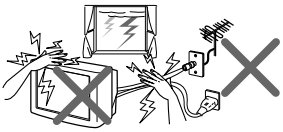
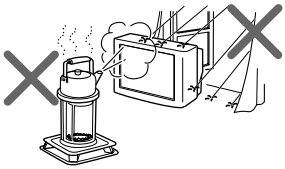
# Safety Information

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 220 - 240 V AC.

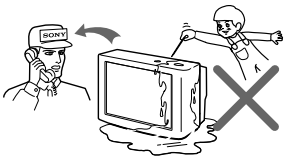


For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.

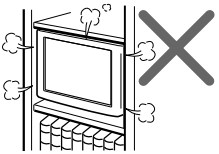
For children's safety, do not leave children alone with the TV. Do not allow children to climb onto it.



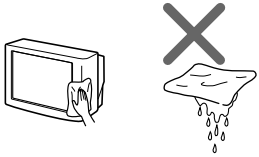
To prevent fire or shock hazard, do not expose the TV to rain or moisture.



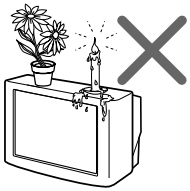

Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.



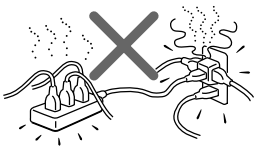
Do not block the ventilation openings of the TV.
Do not install the TV in a confined space, such as a bookcase or built-in cabinet.



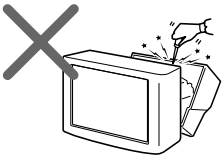
Clean the TV with a dry and soft cloth.
Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.



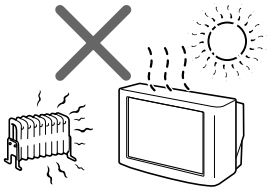
Do not
place any objects on the TV.



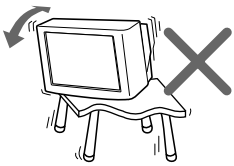
Do not plug in too many appliances to the same power socket. Do not damage the power cord.



Do not open the cabinet and the rear cover of the TV as high voltages and other hazards are present inside the TV. Refer servicing and disposal of the TV to qualified personnel.



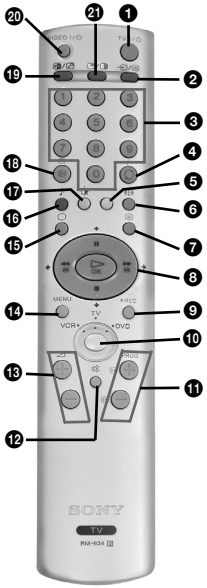
Your TV is recommended for home use only.
Do not use the TV in any vehicle or where it may be subject to excessive dust, heat, moisture or vibrations.



Install the TV on a stable TV stand and floor which can support the TV set weight. Ensure that the TV stand surface is flat and its area is larger than the bottom area of the TV.

Pull the power cord out by the plug. Do not pull the power cord itself. Even if your TV is turned off, it is still connected to the AC power source (mains) as long as the power cord is plugged in. Unplug the TV before moving it or if you are not going to use it for several days.

# Overview of Remote Control Buttons



❶ **To Temporarily Switch Off TV:**
Press this button to temporarily switch off TV (the standby indicator ⏻ on the TV lights up). Press again to switch on TV from standby mode.
*To save energy we recommend switching off completely when TV is not in use.*
⚠ After 15 minutes without a signal and without any button being pressed, the TV switches automatically into standby mode.

❷ **Selecting input source:** Press this button repeatedly until the desired input symbol of the source appears on the TV screen.

❸ **Selecting channels:**
If Media Selector is switched to TV or VCR, press this button to select channels.
For double-digit programme numbers, enter the second digit within 2.5 seconds.

❹ **a) If Media Selector is switched to TV:**
Press this button to watch the last channel selected (the last channel watched for at least 5 seconds).

**b) If Media Selector is switched to VCR:**
For Sony's VCR double-digit programme numbers, e.g. 23, press -/-- first and then the buttons 2 and 3.

❺ *This button only works in Teletext mode.*

❻ **Selecting screen format:** Press this button repeatedly to change the format of the screen. For more details refer to chapter "Auto Format" on page 14.

❼ **Selecting Teletext:** Press this button to switch on teletext.

❽ **a) If Media Selector is switched to TV:**
- When MENU is switched on, use these buttons to operate the menu system. For details refer to "Introducing and Using the Menu System" on page 9.
- When MENU is switched off, press OK to show a channel overview. Then press ▼ or ▲ to select the channel and then press again the OK button to watch the selected channel.

**b) If Media Selector is switched to VCR or DVD:**
Using these buttons you can control the main functions of your VCR or DVD.

❾ **Recording button:** If Media Selector is switched to VCR, press this button to record programmes.

❿ **Media Selector:**
With this remote control you can operate not only this TV but also the main functions of your VCR or DVD. Switch on the device you want to operate and next press this button repeatedly to select the VCR, TV or DVD. A green light will be momentarily lit to indicate the chosen function.
⚠ Before the first time you want to control a DVD or VCR by using this remote control, you have to set it up depending on the brand of the device to be used. For more details, refer to chapter "Remote Control Configuration for VCR or DVD" on page 20.

⓫ **Selecting channels:** Press this button to select the next or previous broadcast channel.

⓬ **Muting the Sound:** Press this button to mute TV sound. Press again to restore the sound.

⓭ **Adjusting TV volume:** Press this button to adjust the volume of the TV.

⓮ **Displaying the menu system:** Press this button to display the menu on the TV screen. Press again to remove the menu display from the TV screen.

⓯ **Selecting TV mode:** Press this button to switch off PIP, teletext or video input.

⓰ **Selecting Sound effect:** Press this button repeatedly to change the sound effect.

⓱ **Selecting Picture mode:** Press this button repeatedly to change the picture mode.

⓲ **Displaying on Screen information:** Press this button to display all on-screen indications. Press again to cancel.

⓳ **Swapping screens:** Whilst you are in "PIP" mode, press this button to swap the two screens.

⓴ **VCR or DVD on/off:** Press this button to switch your VCR or DVD on or off.

㉑ **PIP (Picture in Picture):** Press this button to watch another source in a small picture (PIP) within the main TV picture. Press again to cancel. To select the source you want to watch, refer to the chapter "PIP Input" on page 16.

ⓘ Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to "Teletext" section of this instruction manual.

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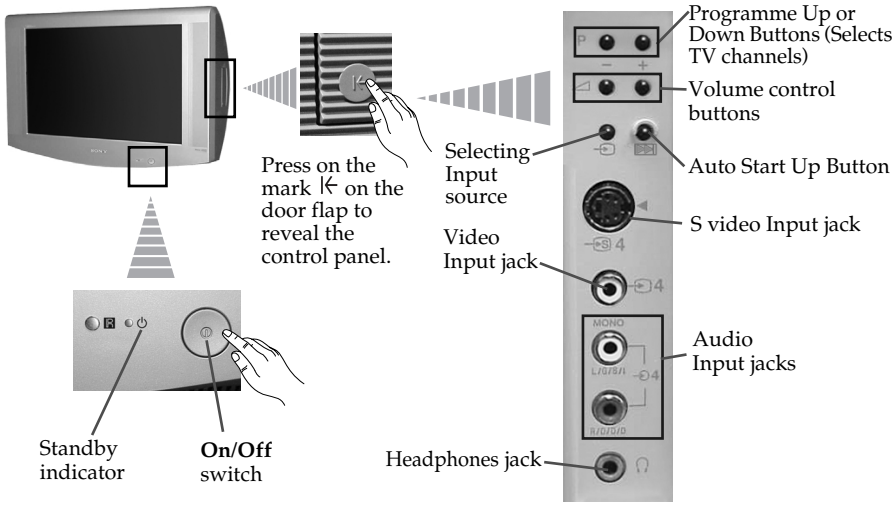
# Overview of TV Buttons

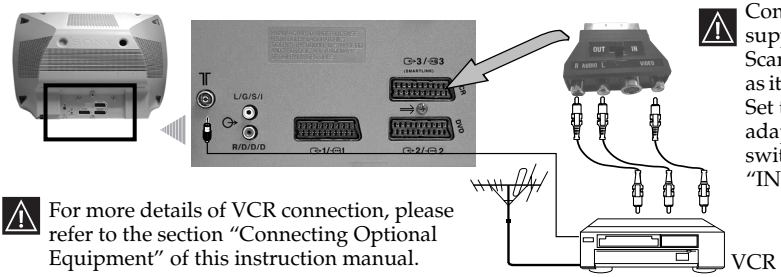

Programme Up or Down Buttons (Selects TV channels)
Volume control buttons
Auto Start Up Button
S video Input jack
Audio Input jacks
Headphones jack
Selecting Input source
Video Input jack
Press on the mark on the door flap to reveal the control panel.
Standby indicator
On/Off switch

# Inserting Batteries into the Remote Control

- Make sure you insert the supplied batteries using the correct polarities.
- Always remember to dispose of used batteries in an environmental friendly way.
- To avoid battery leakage and damage to the ramote, remove the batteries from the remote if you are not going to use it for several days. If any liquid that leaks from the batteries touches you, immediately wash it away with water.

# Connecting the Aerial and VCR

Connecting cables are not supplied.



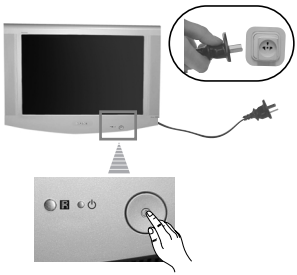

Connect the supplied Scart adaptor as it is shown. Set the Scart adaptor switch to "IN".

For more details of VCR connection, please refer to the section "Connecting Optional Equipment" of this instruction manual.

# Switching On the TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) adjust the picture slant, 2) search and store all available channels (TV Broadcast) and 3) change the order in which the channels (TV Broadcast) appear on the screen.
However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the (Set Up menu) or by pressing the Auto Start Up Button ⏭ on the TV set.

**1** Connect the TV plug to the mains socket (220-240V AC, 50Hz)



Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the aerial and other terminals to ground.

The first time that the TV set is connected, it is usually turned on. If the TV is off, press the ⏻ on/off button on the TV set to turn on the TV.
The first time you switch on the **TV**, a menu screen displays automatically on the TV.

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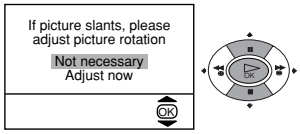
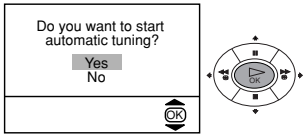
**2** Because of the earth's magnetism, the picture might slant. The **Picture Rotation** menu allows you to correct the picture slant if it is necessary.




**a)** If it is not necessary, press ▼ or ▲ to select **Not necessary** and press **OK**.

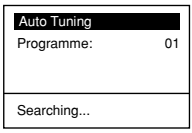
**b)** If it is necessary, press ▼ or ▲ to select **Adjust now**, then press **OK** and correct any slant of the picture between –5 and +5 by pressing ▼ or ▲ . Finally press **OK** to store.

**3** The Auto Tuning menu appears on the screen. Press the **OK** button to select **Yes**.



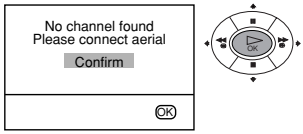

continued...

**4** The TV starts to automatically search and store all available broadcast channels for you.

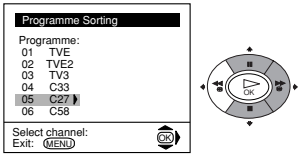



⚠ This procedure could take some minutes. Please be patient and do not press any buttons, otherwise the automatic tuning will not be completed.

⚠ If no channels were found during the auto tuning process then a new menu appears automatically on the screen asking you to connect the aerial. Please connect the aerial (see page 6) and press **OK**. The auto tuning process will start again.




**5** ⓘ After all available channels are captured and stored, the **Programme Sorting** menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.



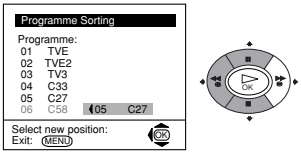

**a)** If you wish to keep the broadcast channels in the tuned order, go to step 6.

**b)** If you wish to store the channels in a different order:

**1** Press the ↓ or ↑ button to select the programme number with the channel (TV Broadcast) you wish to rearrange, then press the → button.

**2** Press the ↓ or ↑ button to select the new programme number position for your selected channel (TV Broadcast), then press ← .

**3** Repeat steps b)1 and b)2 if you wish to change the order of the other channels.




**6** Press the **MENU** button to remove the menu from the screen.

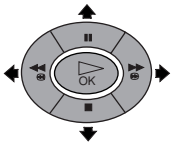
*Your TV is now ready for use*

# Introducing and Using the Menu System

Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

**1** Press the **MENU** button to switch the first level menu on.

**2**
- To highlight the desired menu or option, press ▼ or ▲.
- To enter to the selected menu or option, press ▶.
- To return to the last menu or option, press ◀.
- To alter settings of your selected option, press ▼ / ▲ / ◀ or ▶.
- To confirm and store your selection, press **OK**.




**3** Press the **MENU** button to remove the menu from the screen.

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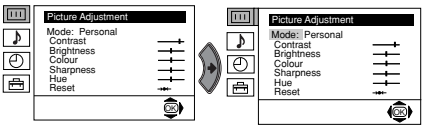
# Menu Guide

| Level 1 | Level 2 | Level 3 / Function |
|---|---|---|



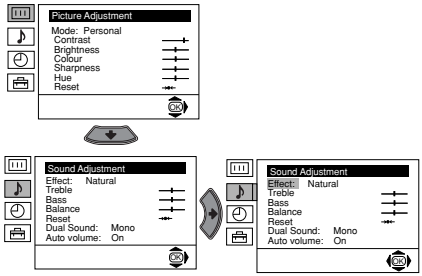

**PICTURE ADJUSTMENT**
The "Picture Adjustment" menu allows you to alter the picture adjustments.

To do this: after selecting the item you want to alter press ▶, then press repeatedly ▼ / ▲ / ◀ or ▶ to adjust it and finally press **OK** to store the new adjustment.
This menu also allows you to customise the picture mode based on the programme you are watching:
- ▼ **Live** (for live broadcast programmes, DVD and Digital Set Top Box receivers).
- ▼ **Personal** (for individual settings).
- ▼ **Movie** (for films).

- ***Brightness, Colour*** *and* ***Sharpness*** *can only be altered if "Personal" mode is selected.*
- ***Hue*** *is only available for NTSC colour signal (e.g: USA video tapes).*
- *Select* ***Reset*** *and press* ***OK*** *to reset the picture to the factory preset levels.*

continued...

| Level 1 | Level 2 | Level 3 / Function |
|---|---|---|




**SOUND ADJUSTMENT**

The "Sound Adjustment" menu allows you to alter the sound adjustments.

To do this: after selecting the item you want to alter, press ↓. Then press repeatedly ↓ / ↑ / ← or → to adjust it and finally press **OK** to store the new adjustment.

**Effect** →
- ↓ **Natural:** Enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"*.
- ↓ **Dynamic:** "BBE High Definition Sound system"* intensifies clarity and presence of sound for better intelligibility and musical realism.
- ↓ **Dolby******Virtual:** Simulates the sound effect of "Dolby Surround Pro Logic".
- ↓ **Off:** Flat response.

**Treble** → ← Less → More

**Bass** → ← Less → More

**Balance** → ← Left → Right

**Reset** (OK) Resets the sound to the factory preset levels.

**Dual Sound** →
- *For a stereo broadcast:*
  - ↓ **Mono**.
  - ↓ **Stereo**.
- *For a bilingual broadcast:*
  - ↓ **Mono** (for mono channel if available).
  - ↓ **A** (for channel 1).
  - ↓ **B** (for channel 2).

**Auto Volume** →
- ↓ **Off:** volume level changes according to the broadcast signal.
- ↓ **On:** volume level of the channels will stay the same, independent of the broadcast signal (e.g. in the case of advertisements).

- *If you are listening to the TV through headphones, the "Effect" option will automatically be switched to "Off".*
- *If you select "Dolby Virtual" on the "Effect" option, the "Auto Volume" option will automatically be switched to "Off" and vice versa.*

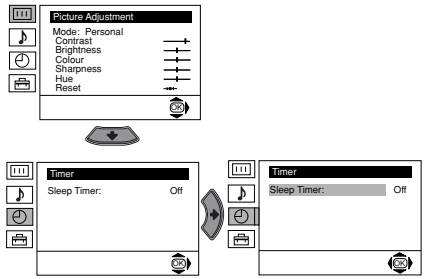
* *The "BBE High Definition Sound system" is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and BBE Symbol are trademarks of BBE Sound, Inc.*

** *This TV has been designed to create the "Dolby Surround" sound effect by simulating the sound of four speakers with two speakers, when the broadcast audio signal is Dolby Surround encoded. The sound effect can also be improved by connecting a suitable external amplifier (for details refer to "Connecting to external audio Equipment" on page 19).*

** *Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol* ⧫⧫ *are trademarks of Dolby Laboratories.*

continued...

| Level 1 | Level 2 | Level 3 / Function |
|---|---|---|

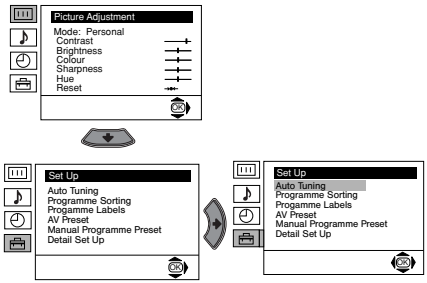



### SLEEP TIMER

The "Sleep Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically into the standby mode.

To do this: after selecting the option press ➔, then press ↓ or ↑ to set the time period delay (max. of 4 hours).

- *While watching the TV, you can press the i+ button on the remote control to display the time remaining.*
- *One minute before the TV switches itself into standby mode, the time remaining is displayed on the TV screen automatically.*




### AUTO TUNING

The "Auto Tuning" option in the "Set Up" menu allows you to automatically search for and store all available TV channels.

To do this: after selecting the option, press ➔ and then proceed in the same way as in the steps 3 and 4 of the section "Switching On the TV and Automatically Tuning" on pages 7 and 8.

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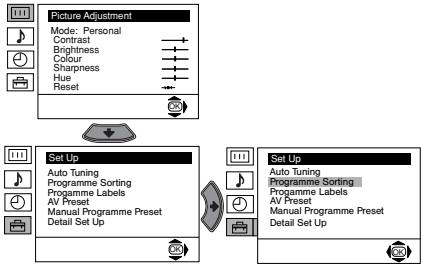
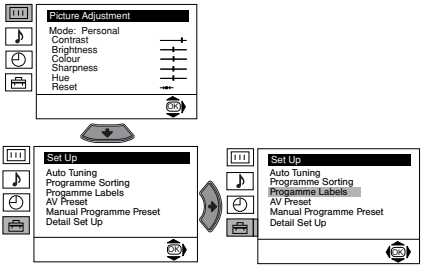



### PROGRAMME SORTING

The "Programme Sorting" option in the "Set Up" menu allows you to change the order in which the channels (TV Broadcast) appear on the screen.

To do this: after selecting the option, press ➔ and then proceed in the same way as in step 5 b) of the section "Switching On the TV and Automatically Tuning" on page 8.

continued...



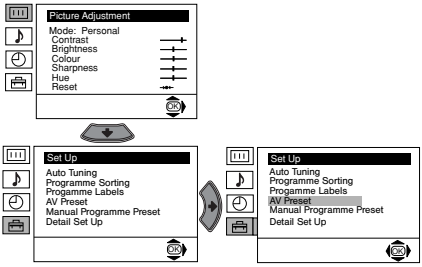

## PROGRAMME LABELS

The "Programme Labels" option in the "Set Up" menu allows you to name a channel using up to five characters (letters or numbers).

To do this:

**1** After selecting the option, press ➧, then press ▼ or ▲ to select the programme number with the channel you wish to name.

**2** Press ➧. With the first element of the **Label** column highlighted, press ▼ or ▲ to select a letter or number (select "-" for a blank), then press ➧ to confirm this character. Select the other four characters in the same way. Finally press **OK** to store.




## AV PRESET

The "AV Preset" option in the "Set Up" menu allows you to designate a name to the external equipment you have connected to the input sockets of this TV.

To do this:

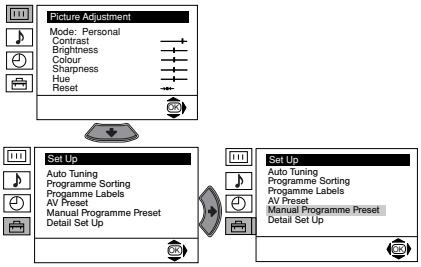
**1** After selecting the option, press ➧, then press ▼ or ▲ to select the input source you wish to name (**AV1, AV2** and **AV3** are for the rear Scarts and **AV4** for side connectors). Then press ➧.

**2** A label automatically appears in the label column:

**a)** If you want to use one of the 6 predefined label (**CABLE, GAME, CAM, DVD, VIDEO** or **SAT**), press ▼ or ▲ to select the desired label and finally press **OK** to store.

**b)** If you want to set a different label, select **Edit** and press ➧. Then with the first element highlighted, press ▼ or ▲ to select a letter, number or "-" for a blank, then press ➧ to confirm this character. Select the other four characters in the same way and finally press **OK** to store.

continued...




**MANUAL PROGRAMME PRESET**

The "Manual Programme Preset" option in the "Set Up" menu allows you to:

**a)** Preset channels or the VCR channel one by one to the programme order of your choice. To do this:

**1** After selecting the "Manual Programme Preset" option, press ▶ then with **Programme** option highlighted press ▶. Press ▼ or ▲ to select on which programme number you want to preset the channel. Then press ◀.

For a VCR, select programme number "0" only.

**2** After selecting the **Channel** option, press ▶. Then press the number buttons to enter directly the channel number of the TV Broadcast or the channel of the VCR signal. If you do not know the channel number, press ▼ or ▲ to search for it. When you tune the desired channel, press **OK** twice to store.

*Repeat all the above steps to tune and store more channels.*

**b)** Label a channel using up to five characters.

To do this: Highlighting the **Programme** option, press the **PROG +/-** button to select the programme number with the channel you wish to name. When the programme you want to name appears on the screen, select the **Label** option and press ▶. Next press ▼ or ▲ to select a letter, number or "-" for a blank. Press ▶ to confirm this character. Select the other four characters in the same way. After selecting all the characters, press **OK** twice to store.

**c)** Fine tune the broadcast reception. Normally the automatic fine tuning (AFT) will give the best possible picture, however you can manually fine tune the TV to obtain a better picture reception in case the picture is distorted.

To do this: while watching the channel (TV Broadcast) you wish to fine tune, select the **AFT** option and press ▶. Next press ▼ or ▲ to adjust the fine tuning between -15 and +15. Finally press **OK** twice to store.

**d)** Skip any unwanted programme numbers when they are selected with the PROG +/- buttons.

To do this: Highlighting the **Programme** option, press the **PROG +/-** button to select the programme number you want to skip. When the programme you want to skip appears on the screen, select the **Skip** option and press ▶. Next press ▼ or ▲ to select **Yes**. Finally press **OK** twice to confirm and store.

*To cancel this function afterwards, select "No" instead of "Yes" in the step above.*

**e)** View and record scrambled channels when using a decoder connected to Scart **3**/ **3** directly or through a VCR.

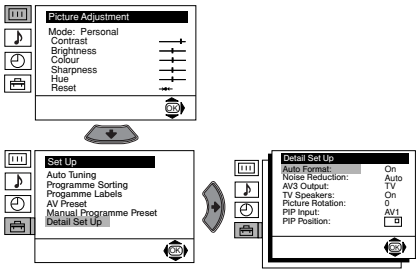
To do this: select the **Decoder** option and press ▶. Next press ▼ or ▲ to select **On**. Finally press **OK** twice to confirm and store.

*To cancel this function afterwards, select "Off" instead of "On" in the step above.*

continued...



EN




## AUTO FORMAT

The "Auto Format" option in the "Detail Set Up" menu allows you to automatically change the aspect ratio of the screen.

To do this: after selecting the option, press ➧. Then press ▼ or ▲ to select **On** (if you wish the TV set to automatically switch the screen format according to the broadcast signal) or **Off** (if you wish to keep your preference). Finally press **OK** to store.

Even if you have selected "On" or "Off" in the "Auto Format" option, you can always modify the format of the screen by pressing ⧉ repeatedly on the remote control to select one of the following formats:

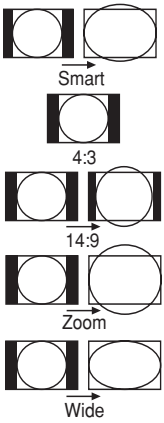
**Smart:** Imitation of wide screen effect for 4:3 broadcast.

**4:3:** Conventional 4:3 picture size, full picture information.

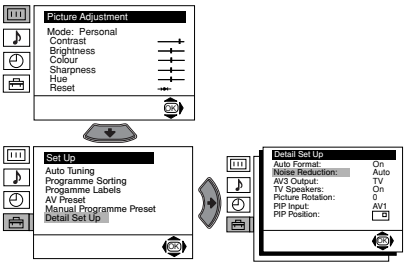
**14:9:** Compromise between 4:3 and 16:9 picture size.

**Zoom:** Widescreen format for letterbox movies.

**Wide:** For 16:9 broadcast. Full picture information.




In "Smart", "Zoom" and "14:9" modes, parts of the top and bottom of the screen are cut off. Press ▼ or ▲ to adjust the position of the image on the screen (e.g. to read subtitles).




## NOISE REDUCTION

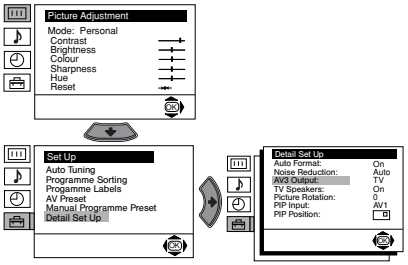
The "Noise Reduction" option in the "Detail Set Up" menu allows you to automatically reduce the picture noise visible in the broadcast signal.

To do this: after selecting the option, press ➧. Then press ▼ or ▲ to select **Auto**. Finally press **OK** to confirm and store.

*To cancel this function afterwards, select "Off" instead of "Auto" in the step above.*

continued...

| Level 1 | Level 2 | Level 3 / Function |
|---|---|---|




### AV3 OUTPUT

The "AV3 Output" option in the "Detail Set Up" menu allows you to select the source to be output from the Scart connector **3**/ **3** so that you can record from this Scart any signal coming from the TV or from an external equipment connected to the Scart connectors **1**/ **1** or **2**/ **2** or side connectors **4** or **4** and **4**.

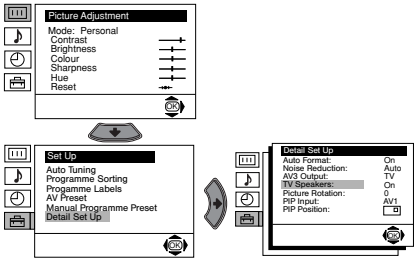
If you select AV1 or AV2 and you use the supplied scart cable, it is necessary to connect all 6 lines of it.

To do this: after selecting the option, press ➧. Then press ▼ or ▲ to select the desired output signal: **TV, AV1, AV2, AV4, YC4** or **AUTO**.

If you select "AUTO", the output signal will always be the same one that is displayed on the screen.

If you have connected a decoder directly to the Scart **3**/ **3** or to a VCR connected to this Scart, please remember to change back the "AV3 Output" to "AUTO" or "TV" for correct unscrambling. This is not necessary if you connect the decoder through the supplied scart adaptor.

EN

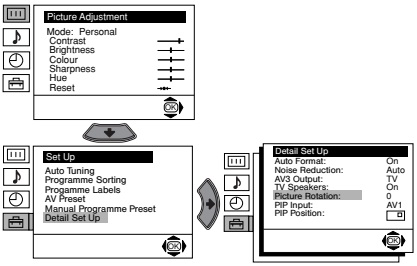



### TV SPEAKERS

The "TV Speakers" option in the "Detail Set Up" menu allows you to mute the TV speakers in order to listen to the TV from an external amplifier connected to the audio outputs on the rear of the TV set.

To do this: after selecting the option, press ➧. Then press ▼ or ▲ to select **Off**. Finally press **OK** to confirm and store.

*To cancel this function afterwards, select "On" instead of "Off" in the step above.*



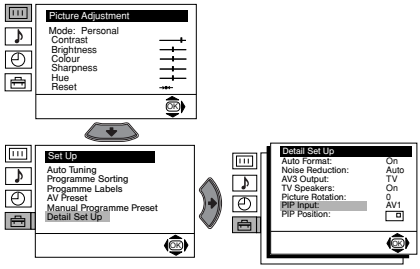

### PICTURE ROTATION

Because of the earth's magnetism, the picture might slant. If this is the case, you can correct the pictures slant by using the "Picture Rotation" option in the "Detail Set Up" menu.

To do this: after selecting the option, press ➧. Then press ▼ or ▲ to correct any slant of the picture between -5 and +5.

continued...

| Level 1 | Level 2 | Level 3 / Function |
|---|---|---|

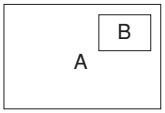



**PIP INPUT**

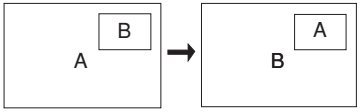
The "PIP Input" option in the "Detail Set Up" menu allows you to select the source you want to watch in the "PIP" screen.

To do this: after selecting the option, press ➡. Then press repeatedly ⬇ or ⬆ to select the desired source **AV1, AV2, AV3, AV4** or **TV**. Finally press **OK** to store.

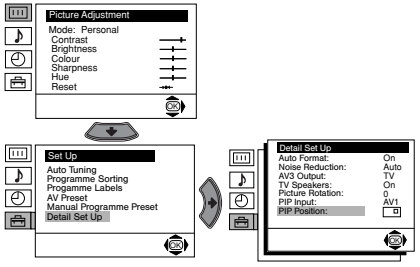
⚠ To watch the AV1 or AV2 source in the "PIP" screen, all the 6 lines of the supplied scart cable should be connected.




ⓘ To watch the "PIP" screen with the selected source, press the ◔ / ◑ button on the remote control.



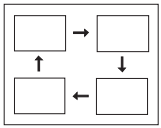

ⓘ You can swap the screens by pressing the ⟲ / ⟳ button on the remote control.




**PIP POSITION**

The "PIP Position" option in the "Detail Set Up" menu allows you to change the position of the "PIP" screen within the main screen.

To do this: after selecting the option press ⬇, ⬅, ⬆ or ➡ to select the desired position. Finally press **OK** to store.



# Teletext

Teletext is an information service transmitted by some TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

Teletext errors may occur if you use a channel (TV Broadcast) with a weak signal.

**To switch on Teletext :**

After selecting the TV channel which carries the teletext service you wish to view, press .

**To select a Teletext page:**

Input 3 digits for the page number, using the numbered buttons.

- *If you make a mistake, retype the correct page number.*
- *If the counter on the screen continues searching, it is because the page is not available. If this is the case, input another page number*

**To access the next or preceding page:**

Press **PROG +** ( ) or **PROG -** ( ).

**To superimpose teletext on to the TV:**

Whilst you are viewing teletext, press . Press it again to cancel teletext mode.

**To freeze a teletext page:**

Press / . Press it again to cancel the freeze.

**To reveal concealed information (e.g: answer to a quiz):**

Press / . Press it again to conceal the information.

**To select a sub page:**

A teletext page may consist of several sub pages. In this case the page number that appears on the upper left corner will change from white to green and one or more arrows will appear next to the page number. Repeatedly press the ◆ or ◆ buttons on the remote control to watch the desired sub page.

**To Switch Off Teletext:**

Press .

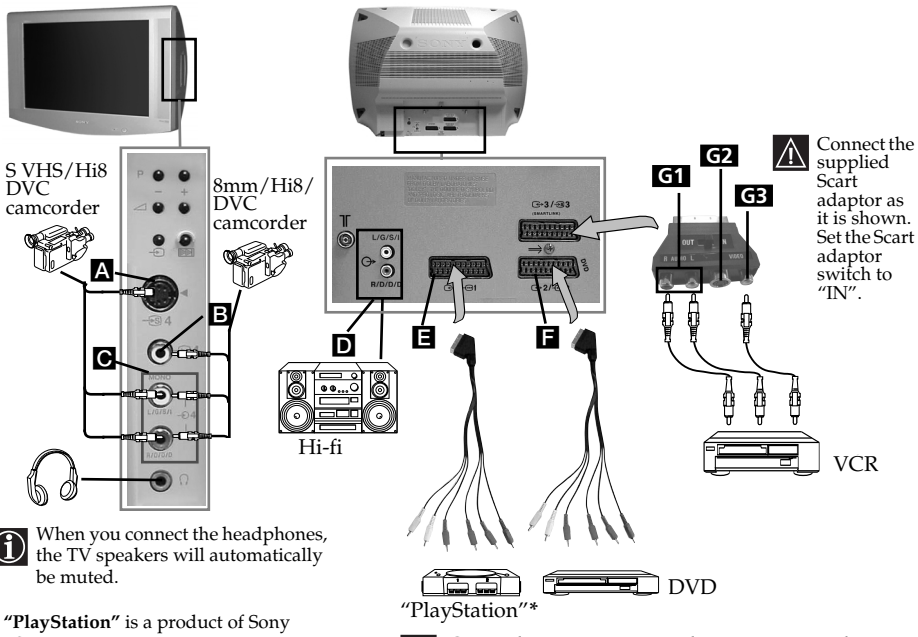
# Fastext/TOPtext

Fastext/TOPtext service lets you access Teletext pages with one button push.
When you are in Teletext mode and Fastext/TOPtext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the appropriate coloured button (red, green, yellow or blue) to access the page corresponding to your menu choice.

EN

# Connecting Optional Equipment

- Using the following instructions you can connect a wide range of optional equipment to your TV set.
- 1 Scart adaptor and 2 Scart cables are supplied, other connecting cables are not supplied.




When you connect the headphones, the TV speakers will automatically be muted.

* **"PlayStation"** is a product of Sony Computer Entertainment, Inc.
* **"PlayStation**" is a trademark of Sony Computer Entertainment, Inc.

Games that use a "gun" attachment to point at the screen do not work correctly due to 100 Hz technology used in this television.

- To avoid picture distortion, do not connect external equipment to connectors **A** and **B** at the same time or **G2** and **G3**.
- Do not connect a Decoder to the Scart **F**.

## Connecting a VCR:

To connect a VCR, please refer to the section "Connecting the aerial and VCR" of this instruction manual. Tune in the VCR test signal to the TV programme number "0" by using the "Manual Programme Preset" option. (for details of how to manually programme these presets, see page 13, step a).
Refer to your VCR instruction manual to find out how to find the output channel of your VCR.

## If you have connected a decoder directly to the Scart ⇨3/ ⇦3 or through a VCR connected to this Scart:

Select the "Manual Programme Preset" option in the "Set Up" menu and after entering in the "Decoder" option, select "On" (by using ↓ or ↑). Repeat this option for each scrambled signal.

This is not necessary if you connect the decoder through the scart adaptor.

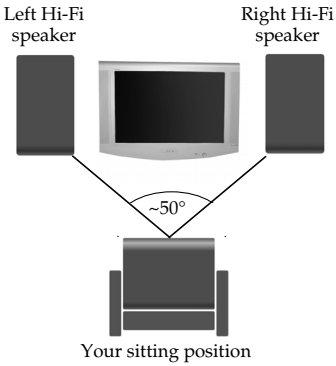
continued...

### Connecting to external Audio Equipment:

Plug in your Hi-Fi equipment to the audio output sockets **D** if you wish to amplify the audio output from TV. Next , using the menu system, select the "Set Up" menu, enter the "Detail Set Up" menu and set "TV Speakers" to "Off".

Audio level of the external speakers can be modified by pressing the volume buttons on the remote control. Also treble and bass settings can be modified through the "Sound Adjustment" menu.

**To enjoy "Dolby Virtual" sound effect through your Hi-Fi equipment:**
Place the speakers of your equipment in front of your listening position and beside the TV set but keeping a distance of 50 cm between each speaker and the TV set. Then by using the menu system, select the menu "Sound Adjustment". Next select "Dolby Virtual" on the "Effect" option.




# Using Optional Equipment

1 Connect your equipment to the designated TV socket, as indicated in the previous page.

2 Switch on the connected equipment.

3 To watch the picture of the connected equipment, press the ⊖ button repeatedly until the correct input symbol appears on the screen.

| Symbol | Input Signals |
|---|---|
| ⊖1 | • Audio / video input signal through the rear connector **E**. |
| ⊖1 | • YUV input signal through the rear connector **E**. |
| ⊖2 | • Audio / video input signal through the rear connector **F**. |
| ⊖2 | • YUV input signal through the rear connector **F**. |
| ⊖3 | • Audio/video input signal through the rear connector **G1** and **G3** . |
| ⊖3 | • S Video Input signal through the rear connector **G2**. This symbol appears only if an S Video source has been connected. |
| ⊖4 | • Video input signal through the phono socket **B** and Audio input signal through **C**. |
| ⊖4 | • S Video Input signal through the front S Video input jack **A** and Audio signal through **C**. This symbol appears only if an S Video source has been connected. |

4 Press ▢ button on the remote control to return to the normal TV picture.

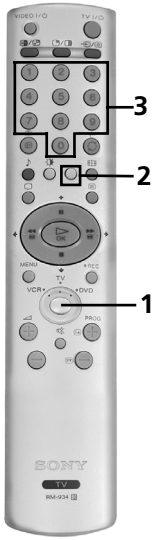
**For Mono Equipment**
Connect the phono plug to the L/G/S/I socket on the front of the TV and select ⊖4 or ⊖4 input signal using the instructions above. Finally, refer to the "Sound Adjustment" section of this manual and select "Dual Sound" "A" on the sound menu screen.

EN

# Remote Control Configuration for VCR/DVD

In it's default condition this remote control will operate the basic functions of this Sony TV, Sony DVDs and most Sony VCRs. To control VCRs and DVDs of other manufacturers (and some Sony VCR models), please complete the following steps:

- Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.
- Sony will endeavour to update the software according to market changes. Therefore, please refer to the code table included with the remote control for the latest code set.




**1** Press the Media Selector button on the remote control repeatedly until the required green light (VCR or DVD) is lit.

If Media Selector is on TV position, code numbers will not be stored.

**2** Before the green light goes out, press and hold the yellow button for approximately 6 seconds until the green light starts flashing.

**3** Whilst the green light is flashing, enter all three digits of the code for your brand of VCR or DVD using the number buttons on the remote control.

If your selected code is entered correctly, all three green lights will be lit momentarily.

**4** Turn on your VCR or DVD and check that the main functions work.

- If your device is not working or some of the functions do not work please check that you entered the correct code set or try the next code listed against the brand.
- Your brand codes may be lost if weak batteries are not replaced within a few minutes. To reset your brand of DVD or VCR please repeat the above steps. A small label is added inside the battery door to allow you to record your brand codes.
- Not all brands are covered and not all models of every brand may be covered.

## VCR Brand List

| Brand | Code |
|---|---|
| SONY (VHS) | 301, 302, 303, 308, 309 |
| SONY (BETA) | 303, 307, 310 |
| SONY (DV) | 304, 305, 306 |
| AIWA | 325, 331, 351 |
| AKAI | 326, 329, 330 |
| DAEWOO | 342, 343 |
| GRUNDIG | 358, 355, 360, 361, 320, 351 |
| HITACHI | 327, 333, 334 |
| JVC | 314, 315, 322, 344, 352, 353, 354, 348, 349 |
| LG | 332, 338 |
| LOEWE | 358, 355, 360, 361, 320, 351 |
| MATSUI | 356, 357 |
| ORION | 328 |
| PANASONIC | 321, 323 |
| PHILIPS | 311, 312, 313, 316, 317, 318, 358, 359 |
| SAMSUNG | 339, 340, 341, 345 |
| SANYO | 335, 336 |
| SHARP | 324 |
| THOMSON | 319, 350 |
| TOSHIBA | 337 |

## DVD Brand List

| Brand | Code |
|---|---|
| SONY | 001 |
| AIWA | 021 |
| DENON | 018, 027, 020, 002 |
| GRUNDIG | 009, 028, 023, 024, 016, 003 |
| HITACHI | 025, 026, 015, 004 |
| JVC | 006, 017 |
| KENWOOD | 008 |
| LG | 015, 014 |
| LOEWE | 009, 028, 023, 024, 016, 003 |
| MATSUI | 013, 016 |
| ONKYO | 022 |
| PANASONIC | 018, 027, 020, 002 |
| PHILIPS | 009, 028, 023, 024, 016, 003 |
| PIONEER | 004 |
| SAMSUNG | 011, 014 |
| SANYO | 007 |
| SHARP | 019, 027 |
| THOMSON | 012 |
| TOSHIBA | 003 |
| YAMAHA | 018, 027, 020, 002 |

# Specifications

**TV system:**
B

**Colour system:**
PAL
SECAM, NTSC 3.58, 4.43 (only Video In)

**Channel Coverage:**
VHF: C00-C05, C05A, C06-C09, C09A, C10-C12
UHF: C20-C69
CABLE: S02-S44

**Picture Tube:**
Flat Display FD Trinitron WIDE: 32" (approx. 82 cm. measured diagonally)

**Rear Terminals**

| | |
|---|---|
| 1/ 1 | 21-pin Scart connector including audio/video input, YUV input, TV audio/video output. |
| 2/ 2 | 21-pin Scart connector including audio / video input, YUV input, monitor audio/video output. |
| 3/ 3 | 21-pin Scart connector including audio / video input, S video input, selectable audio / video output. |
| | audio outputs (Left/ Right) - phono jacks |

**Side Terminals**

| | |
|---|---|
| 4 | S Video input – 4 pin DIN |
| 4 | video input – phono jack |
| 4 | audio input – phono jacks |
| | headphones jack |

**Sound Output:**
2 x 20 W (music power)
2 x 10 W (RMS)

**Power Consumption:**
130 W

**Standby Power Consumption:**
0.3 W

**Dimensions (w x h x d) :**
approx. 892 x 565 x 584 mm.

**Weight:**
approx. 62.2 Kg.

**Accessories supplied:**
1 Remote Control (RM-934)
2 Batteries (IEC designated)
1 Scart adaptor
2 Scart cables

**Other features:**
- 100 Hz picture, Digital Plus.
- Teletext, Fastext, TOPtext (250 page TEXT memory).
- Sleep Timer.
- Dolby Virtual.
- BBE.
- PIP.
- Auto Format.

EN

**Design and specifications are subject to change without notice.**

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# Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

| Problem | Solution |
|---|---|
| No picture (screen is dark) and no sound. | • Check the aerial connection.<br>• Plug the TV in and press the ⏻ button on the front of the TV.<br>• If the standby indicator ⏻ is on, press **TV** ⏻ button on the remote control. |
| Poor or no picture (screen is dark), but good sound. | • Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings. |
| No picture or no menu information from equipment connected to the Scart connector. | • Check that the optional equipment is on and press the ⏎ button repeatedly on the remote control until the correct input symbol is displayed on the screen. |
| Good picture, no sound. | • Press the + button on the remote control.<br>• Check that "TV Speakers" is "On" in the "Detail Set Up" menu.<br>• Check that headphones are not connected. |
| No colour on colour programmes. | • Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings. |
| Distorted picture. | • Check that you have not connected at the same time equipment to the connectors **A** and **B** (see illustration on page 18).<br>• Check that you have not connected at the same time equipment to **G2** and **G3** (see illustration on page 18). |
| Distorted picture when changing programmes or selecting teletext. | • Turn off any equipment connected to the Scart connector on the rear of the TV. |
| Picture slanted. | • Using the menu system, select the "Picture Rotation" option in the "Detail Set Up" menu to correct the picture slant. |
| Noisy picture when viewing a TV channel. | • Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception.<br>• Using the menu system, select the "Noise Reduction" option in the "Detail Set Up" menu and select "Auto" to reduce the noise in the picture. |
| No unscrambling or unstable picture whilst viewing a scrambled channel with a decoder connected directly to the Scart connector ⏎3/ ⏎S3. | • Using the menu system, select the "Set Up" menu. Then enter to "Detail Set Up" option and set "AV3 Output" to "TV". |
| Top bent picture when viewing a VCR | • Connect VCR only by tuning to programme number "0" (see page 13) or via any "AV input" (see page 18). |
| Remote control does not function. | • Check that the Media Selector on the remote control is set to the device you are using (VCR, TV or DVD).<br>• If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly. Enter the necessary code set as explained on "Remote Control Configuration for VCR/DVD" chapter of this instruction manual.<br>• Replace the batteries. |
| The standby indicator ⏻ on the TV flashes. | • Contact your nearest Sony service centre. |

⚠ If you continue to experience problems, have your TV serviced by qualified personnel. Never open the casing yourself.

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